SMART SERVER ANTENNA Module

KIT#: J3-1414-30-0A1C

The SMART SERVER ANTENNA Module upgrades any antenna to a SMART SERVER ANTENNA. This module works with Nextivity CEL-FI QUATRA systems and SHIELD public safety solutions to deliver coverage and antenna availability data in real time, within the WAVE Portal. The antenna module also works with Nextivity WAVE Edge Services that allow our customers to leverage their coverage system investment to Do More with DAS (Distributed Antenna System). It supports IoT sensors for smart building applications such as environmental monitoring, access control, and occupancy sensing and is a key component of Nextivity safety and security services for panic buttons and gunshot detection.

SMART SERVER ANTENNA Module

Features and benefits:

- **Server-Side Monitoring:** Remotely track antenna and coverage in real time—including signal strength, system status, and critical performance metrics.

- **Acoustic Gunshot Detection:** Features an integrated acoustic sensor that uses AI to classify gunshot events internally—ensuring privacy, accuracy through detection, and rapid response.

- **Nextivity Ecosystem Integration:** Engineered for plug-and-play compatability with Nextivity cellular, public safety, and private networking solutions, working seamlessly across 4G, 5G, P25, and more.

- **Power Inserter** included to couple DC bias to the Smart Server Antenna Module.

- **IoT Sensor Compatibility:** Supports integration with IoT-enabled devices such as panic buttons, temperature sensors, and more—enabling advanced automation and safety applications within the network.

- **Installation Flexibility:** Compact and lightweight design enables easy installation directly to any indoor antenna.

Electrical Specifications

Frequency Range	450-4200 MHz		
Frequency Band	450/600/700/800/850/900	1700/1800/1900/2000/2100/2300/2400/2500/2600	3300/3500/3600/3700/3800
Insertion Loss	0.6 dB max.	1.2 dB max.	2.1 dB max.
Return Loss (Input & Output/Antenna)	18.4 db typ.	12.7 dB typ.	10.5 dB typ.
BLE Frequency	2402-2480 MHz for path loss measurement and design optimization using WAVE PRO App		
BLE Output Power	8 dBm		
Input Voltage	3.3 to 13.2 VDC		
Impedance	50 Ω nom.		
Antenna Technology	SISO		
Input Power	2 W max.		
Acoustic Sensor	Yes for Acoustic Gunshot Detection service when installed with WAVE Edge Server		

Interface

Input Voltage	2-pin terminal block to provide DC bias using the included power inserter
Input RF	N-type (f), 4-hole flange
Antenna RF	N-type (m), 4-hole flange

Mechanical

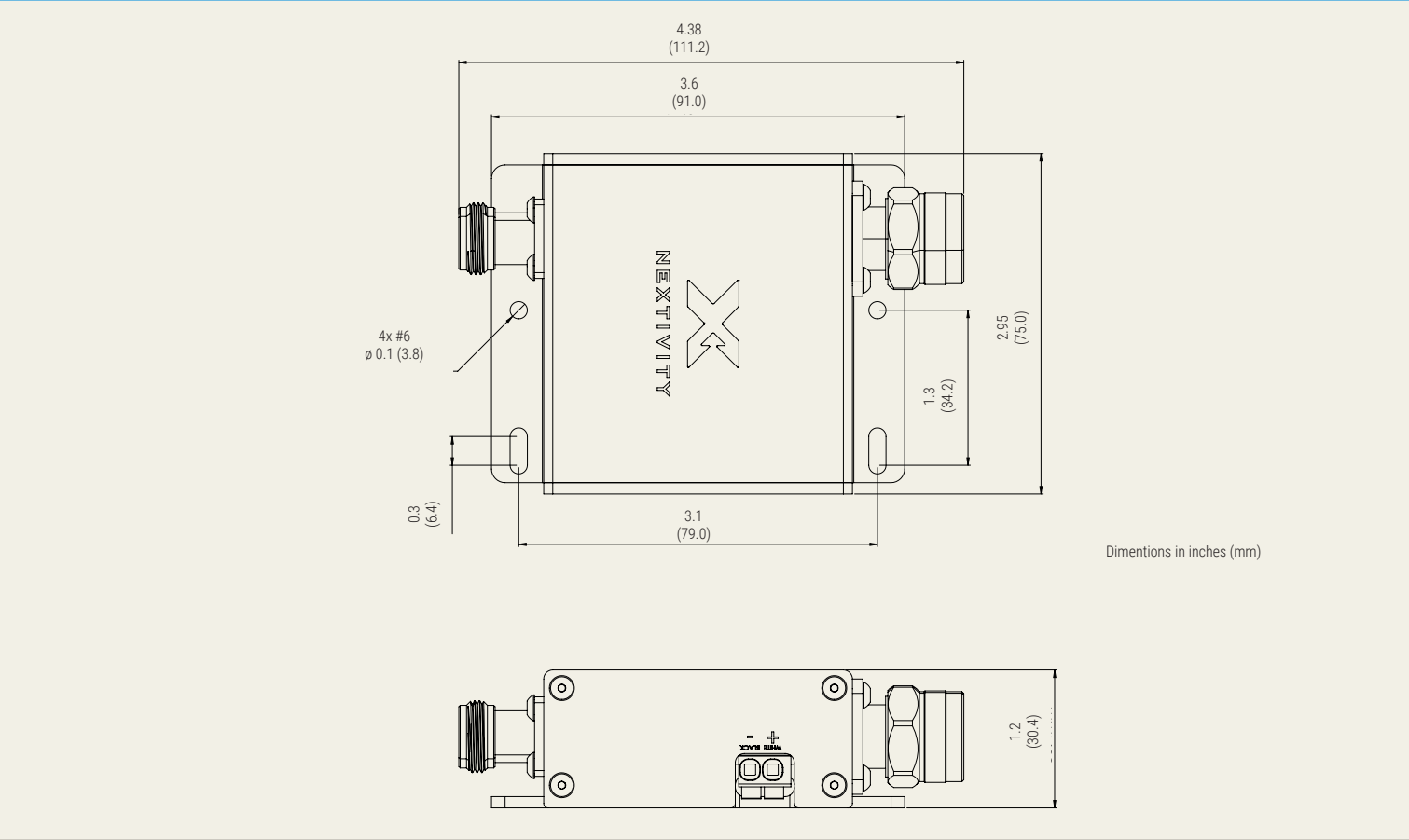|	
Housing Material	Powder Coated Aluminum
Housing Color	White
Mounting	4-Hole Wall Mount
Operating Temperature	32 to 104 °F (0 to 40 °C)
Storage Temperature	-31 to +158 °F (-35 to +70 °C)
Non-Condensing Humidity	0% to 95%
Ingress Protection	IPX0, Indoor Only
Dimensions	4.38 x 2.95 x 1.20 in (111.2 x 75.0 x 30.5 mm)
Product Weight	0.6 lbs (0.27 kg)

Compliance

FCC	Part 15
ISED	Compliant
CE	Compliant, RED 2014/53/EU
RoHS	Compliant
REACH	Compliant

Ordering Information

KIT#	J3-1414-30-0A1C	
Regions	AMER/EMEA/APAC	
Compatibility	SHIELD EXTEND Coverage Unit F41-8XCUB SHIELD SOLO L41-7EB	CEL-FI QUATRA 4000c Coverage Unit Q41-RECU CEL-FI QUATRA EVO Coverage Units Q41-BXCU, I41-WXCU CEL-FI QUATRA 4000e Coverage Units Q41-EECU, Q41-HXCU CEL-FI QUATRA EVO Coverage Unit Q41-HXCU-2
Box Contents	SMART SERVER ANTENNA Module	
	Power Inserter (C11-200-101)	
	Mounting Screws and Anchors	
	Product Documents	
Shipping Dimensions	8.50 x 5.50 x 1.38 in (215.9 x 139.7 x 35.1 mm)	
Shipping Weight	1.2 lbs (0.54 kg)	
GTIN-12 (U.P.C.)	812037032813	
Harmonized Tariff Schedule (HTS)	8517.69.90.00	
Export Control Classifications Number (ECCN)	EAR99	

Outline

Dimensions in inches (mm)

Product specifications are subject to change without prior notification.